

Orion Wheel Kit for SkyQuest™ XX16g GoTo Dobsonian

#5780



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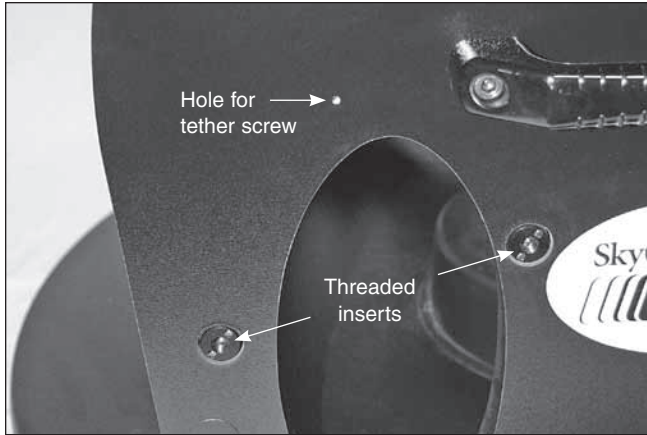


Figure 1. The handle mounting bracket attaches to the two preinstalled threaded inserts shown here. **DO NOT OVERTIGHTEN** the bolts!

The Orion Wheel Kit for XX16g is designed to provide an easy, convenient, and minimalist transport solution for moving the SkyQuest XX16g Dobsonian short distances, say, from your storage location in the garage to your observing spot in the back yard. By lifting the handles you can roll the fully assembled telescope on the Wheel Kit's two 10" pneumatic tires. Once you get to your destination, the wheel assemblies and handles can be removed from the base quickly and *without tools*, so they're out of the way when you're observing. The Wheel Kit is a great time saver, obviating the need to break down the XX16g and then reassemble it each time you need to transport it a short distance.

These instructions will guide you in assembling the Wheel Kit on the XX16g base and in using it once it is installed.

1. Parts List

Qty Part

2	Wheel bar
2	Pneumatic tire
2	Handle (35")
2	Handle mounting bracket
4	Wheel bar mounting bolt with hand knob
4	Handle bracket mounting bolts
2	Handle detent pin
2	Tether cable for detent pin
2	Mounting screws for tether cable
1	6mm Allen wrench

2. Assembly

2.1 **Figure 1** shows the locations of the preinstalled threaded inserts in which you will install the handle mounting brackets. Using the included 6mm Allen wrench, attach the handle brackets with the handle bracket mounting bolts (two for each bracket), as shown in **Figure 2**.

CAUTION: DO NOT OVERTIGHTEN the screws as doing so could damage the wood that anchors the threaded insert!

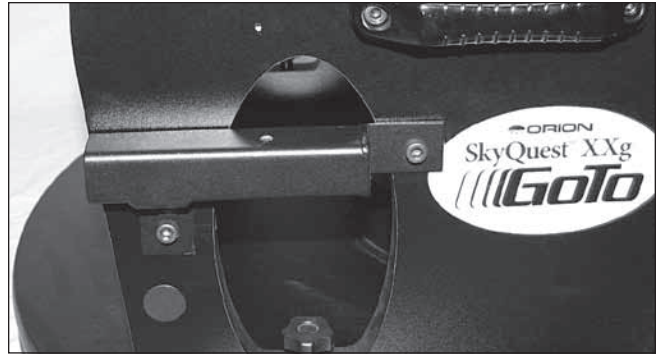


Figure 2. The handle mounting bracket, installed.

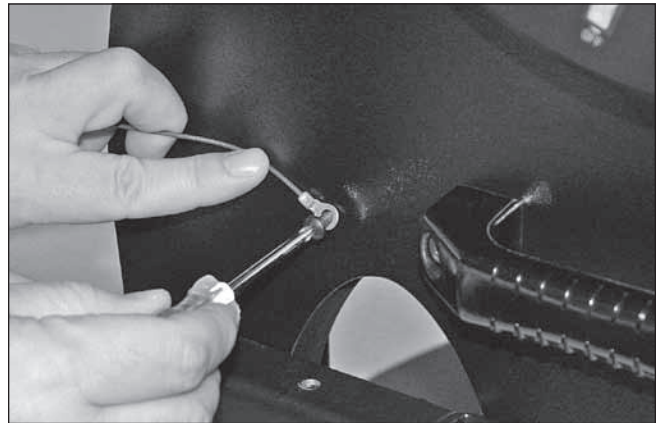


Figure 3. Anchor a detent pin tether to the pilot hole in each side panel with the small Phillips-head wood screw.

2.2 Find the small hole above each handle mounting bracket. Fasten the metal terminal of the handle detent pin's tether cable to the side panel with a wood screw. Insert the screw through the terminal and screw it into the hole with a Phillips screwdriver (**Figure 3**). The cables keep the detent pins tethered to the base, so they can never get lost.

2.3 Each of the two handles has a through-hole close to one end (**Figure 4a**). With the hole oriented vertically, slide the handle into the bracket until the hole in the handle lines up with the hole in the bracket. Then insert the detent pin through the lined-up holes all the way (**4b**); it should protrude from the bottom hole in the bracket (**4c**). Repeat for the other handle.

2.4 Insert two wheel bar mounting bolts through the wheel bar and line them up with the holes in the top groundplate (**Figure 5a**). Note that the wheel "fork" should be angled upward when the wheel bar is in the "resting" (horizontal) position. Push the bolts through the top groundplate, then turn the knobs clockwise to thread the bolts into the metal plate pre-installed underneath the top groundplate. Repeat for the other wheel bar. Tighten all four knobs. **Figure 5b** shows the wheel assemblies fully installed.

Now you're ready to roll!

3. Using the Wheel Kit with Your XX16g

3.1 Check that the tires are properly inflated, typically to a pressure of 30 p.s.i. (but check the recommended tire pres-

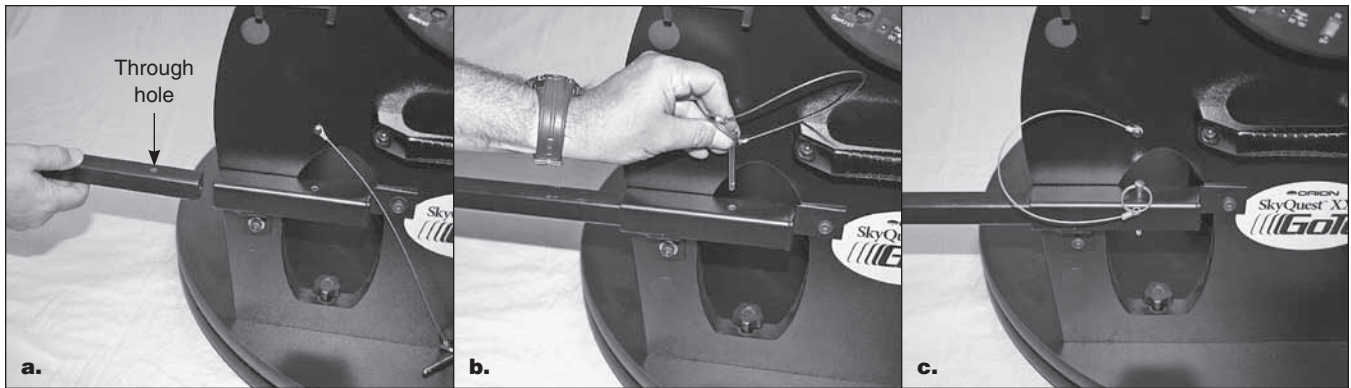


Figure 4. **a)** Insert the handle – the end with the through-hole – into the bracket, **b)** drop the detent pin through the aligned holes in the bracket and handle, **c)** when the detent pin is pushed all the way down, the handle is locked in place.

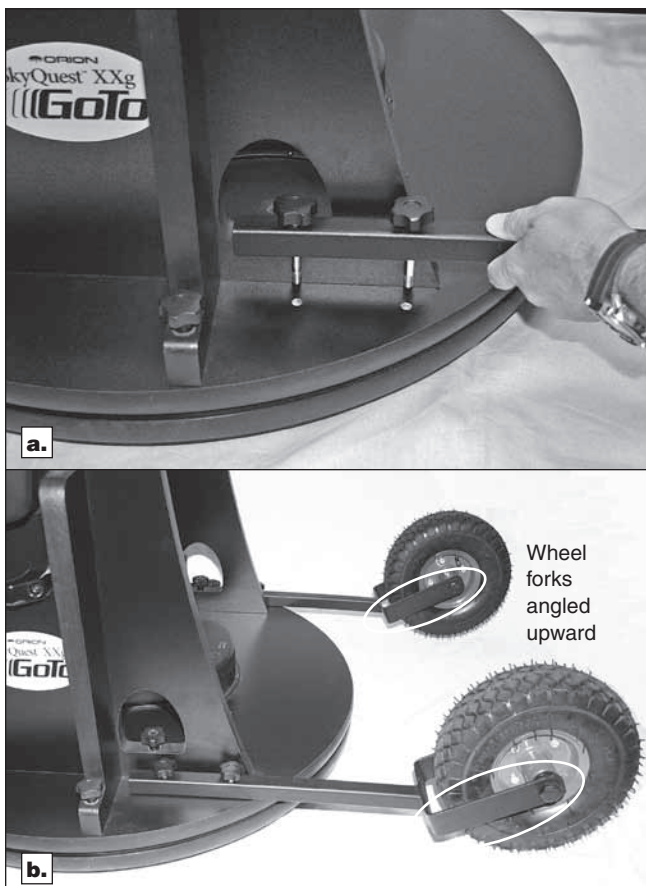


Figure 5. **a)** Each wheel bar attaches to the base with two hand knobs, **b)** in the resting position the wheel forks should be angled upward.

sure on the outside of the tire itself). The tires can be inflated anywhere that car tires are inflated.

3.2 Orient the telescope tube straight up when moving the telescope with the Wheel Kit. Firmly tighten the altitude clutch knob on the XX16g's base to prevent the scope from swinging downward when it is tilted during transport.

3.3 Use proper lifting technique when lifting the telescope by the handles, to avoid back injury! Keep your back straight and bend at the knees while lifting (**Figure 6a**).



Figure 6. **a)** With the tube locked in the vertical position, lift the handles while keeping your knees bent and back straight, **b)** stand up and you're ready to roll!

Grasp the end of the handles firmly, and as you lift them upward, the wheels will make contact with the ground and eventually the base will be leveraged upward, off the ground, allowing you to roll the telescope (**Figure 6b**). Keep your back straight and arms fully extended downward when moving the telescope. You can face the telescope and roll (push) it backward, or face away from the telescope and pull it forward – either way will work. Always set the telescope down gently after you've reached your destination.

CAUTION: Avoid rolling your telescope up or down steep inclines!

3.4 Remove the handles from the handle brackets and remove the wheel assemblies and set them aside prior to observing with the telescope.

4. Specifications

Material	Steel, powder coated black
Wheel assembly dimensions	26" x 10" x 5.5"
Wheel assembly weight	6.85 lbs. each
Wheels	10" pneumatic
Handle bracket dimensions	8" x 3.5" x 1.25"
Handle bracket weight	1.15 lbs.
Handle dimensions	35" x 1" x 1"
Handle weight	3.5 lbs. each

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